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April 8, 2009

The Honorable Chairman and Members  
State of Hawaii Public Utilities Commission  
465 South King Street, Room 103  
Kekuaaoa Building  
Honolulu, HI 96813

FILED  
2009 APR - 8 P 1:19  
PUBLIC UTILITIES  
COMMISSION

Re: Docket No. 2008-0273: Feed-in Tariffs Investigation  
Amended Identification of Witnesses and Curriculum Vitae for April 13-17, 2009  
Hearing

Honorable Chairman and Members of the Commission:

This letter responds on behalf of Blue Planet Foundation ("Blue Planet") to the Commission's letter dated April 7, 2009 requesting a statement of qualifications and curriculum vitae for designated experts in the above-referenced matter and hearing.

By its letter to the Commission dated April 6, 2009, Blue Planet designated Mr. Paul Gipe as an expert in this matter. Mr. Gipe has extensive professional experience and expertise in renewable energy policy matters, particularly feed-in tariffs and wind energy. He is acknowledged as one of the world's leading authorities in feed-in tariff design and travels extensively throughout Europe and North America delivering public lectures, conducting workshops, and consulting in the rapidly evolving area of feed-in tariff design and policy. He is credited as the principal architect of North America's first feed-in tariff program (in Ontario, Canada), which has been characterized as the most progressive renewable energy policy development in North America in two decades, and has been commended by the Ontario Legislative Assembly for significant contributions to energy policy in Ontario and Canada. Mr. Gipe has published nine books on wind energy policy and technical matters, and was awarded the 2008 World Wind Energy Award by the World Wind Energy Association. In addition to his numerous publications, Mr. Gipe maintains a comprehensive website, Wind-Works.org, which serves as leading information resource concerning feed-in tariff design and policy matters. For more information concerning Mr. Gipe's qualifications, and pursuant to the Commission's request, a copy of Mr. Gipe's curriculum vitae is attached.

This letter is also to respectfully request the Commission to permit Blue Planet to amend its prior designation of the Panels for Mr. Gipe. Mr. Gipe recently and temporarily relocated to Toronto to provide consulting services with regard to an eight-week regulatory proceeding concerning the implementation of feed-in tariffs in Ontario, Canada. Due to his time

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commitments in that proceeding, he regrets that he is unable to travel to Hawaii for the Panel Hearing in this matter and must therefore appear by telephone. Further, for the same reasons Mr. Gipe is able to appear only for Panel I and is unable to appear on Panels III and V, as originally indicated in Blue Planet's April 6, 2009 submission.

Finally, Blue Planet respectfully requests permission to withdraw its previously-designated expert witness Prof. Makena Coffman, who is unable to participate in the Panel Hearing.

This letter is being served on the date of this letter by electronic transmission to all parties on the service list in this docket, and two copies are being served on the date of this letter by first class mail to the Division of Consumer Advocacy at the address on the service list in this proceeding.

Thank you for your consideration of the foregoing.

Very truly yours,

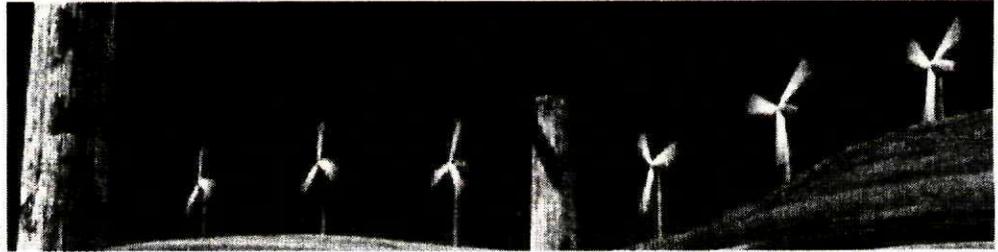
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Douglas A. Codiga

DAC:bjm

cc: Service List

# Wind-Works.org



by Paul Gipe

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## Books

- Wind Power
- Wind Energy
- Wind Basics
- Wind in View

## Articles

- Large Wind
- Small Wind
- Co-op Wind
- Feed Laws
- Solar Energy
- Other
- En français

## Wulf Field

## Workshops

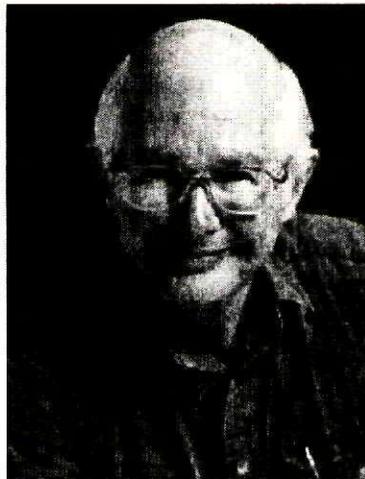
## Photos

## Biography

## Contact

## Links

## Curriculum Vitae of Paul Gipe



### Summary

Broad background in science and engineering. Experience working with multi-disciplinary teams and dealing with the public. Extensive knowledge of wind energy. Skilled speaker and technical writer.

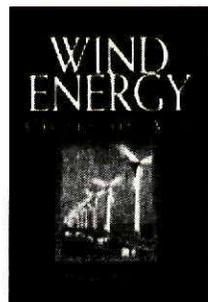
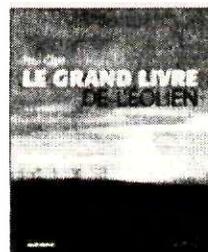
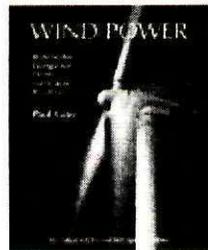
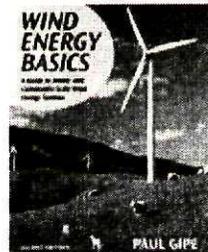
### Work Experience

#### 2003-2006

Almost single-handedly launched a campaign for **Advanced Renewable Tariffs** (electricity feed laws) in North America. Credited as the principal architect of **Ontario's Standard Offer Program**, which some have called the most progressive renewable energy policy development in North America in two decades.

#### 2004

Acting Executive Director: **Ontario Sustainable Energy Association**. Created, managed, and implemented a provincial campaign for Advanced Renewable Tariffs, which sought to adapt electricity feed laws to the North American market and was instrumental in placing the European concept on the political agenda in Ontario. Became the public face for OSEA and its mission, raising the NGO's visibility provincially, nationally,



and internationally. Singled out on the floor of the **Ontario Legislative Assembly** for significantly contributing to energy policy in Ontario and Canada.

### 1985 to 2004

Paul Gipe & Associates: Principal. Firm specialized in evaluating wind turbine technology and reporting on developments in the wind industry. Clients included ANZSES, APROMA, ASES, AusWEA, AWEA, BWEA, BWE, CanWea, DGW, EECA, GEO, KWEA, OSEA, NASA, NREL, NZWEA, USDOE, WWEA, Aerovironment, the Great Lakes Renewable Resources Institute, the Izaak Walton League, Microsoft, the Minnesota Project, NRG Systems, the Rahus Insitute, SeaWest, SEIO/REIO, the Sierra Club, and Zond Systems. From 1985 to 1992 the West Coast representative for the American Wind Energy Association and from 1986 to 1995 the Executive Director of the Kern Wind Energy Association.

### 1984 to 1985

Zond Systems: Director of Corporate Communications. Prepared media kit (noted by many journalists for its thoroughness); responded to investor, public and media inquiries; drafted reports to investors; analyzed wind turbine and partnership performance; analyzed competitive products, and provided technical support.

### 1980 to 1984

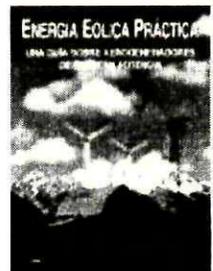
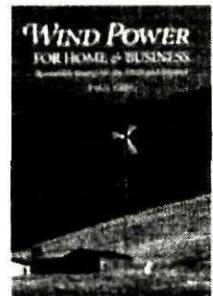
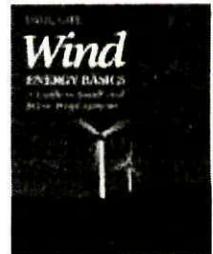
Center for Alternative Resources: Director. Managed non-profit corporation devoted to the development of alternative energy resources. Initiated innovative anemometer loan program under grants from the Evergreen Fund and the U.S. Department of Energy.

### 1976 to 1984

Paul Gipe & Associates: Principal. Provided full range of technical services with an emphasis on technical writing, alternative energy development, and environmental impact analysis. Provided seminars, workshops, and training aids. Provided turnkey installation of wind turbines.



POWER



### **1973 to 1976**

Gannett, Fleming, Corddry, and Carpenter, Inc.: Environmental Scientist. Member of interdisciplinary team preparing environmental impact statements. Assisted in the collection and analysis of meteorological, air quality, and ambient noise data, and in the modeling of future air quality and noise. Wrote several technical reports on the findings of air quality and noise studies.

### **1971 to 1973**

Environmental Action Committee, Ball State Student Association: Chairman. Organized and directed student involvement in environmental issues.

### **1968 to 1970**

General Motors Corporation: Cooperative Engineering Student. Alternated between six-week work periods and six-week periods at General Motors Institute of Technology. Performed research on industrial problems, e.g. operator safety.

## **Professional Presentations**

Presented papers or lectured before professional meetings of the American Wind Energy Association, Irish Wind Energy Association, American Solar Energy Society, American Society of Civil Engineers, Energy Technology Conference, British Wind Energy Association, California Wind Energy Association, European Wind Energy Association, Indian Solar Energy Society, Hannover Messe, New Zealand Wind Energy Association, Australia-New Zealand Solar Energy Society, Asia-Pacific Wind Energy Centre, Nordvestjysk Folkecenter for Vedvarende Energi, American Society of Mechanical Engineers, and many others.

## **Publications**

### **Books**

*Le Grand Livre de l'Éolien*, Observ'ER, 2007, ISBN: 2-913620-39-6.

***Wind Power: Renewable Energy for Home, Farm, and Business***, Chelsea Green, 496 pp, 2004, ISBN 1-931498-14-8.

***Elettricità dal Vento***, Franco Muzzio Editore, 88 pp, 2002, 88-7413-016-3.

***Wind Power in View: Energy Landscapes in a Crowded World***, Academic Press, co-editor and contributor of chapter on aesthetic design, 234 pp, 2002, ISBN 0-12-546334-0.

***Energía Eólica Práctica***, Progensa, 191 pp, 2000, ISBN 84-86505-88-7.

***Wind Energy Basics***, Chelsea Green, 122 pp, 1999, ISBN 1-890132-07-1.

***Guide de L'Énergie Éolienne***: a chapter on worldwide wind development, Paris, Collection Études et Filières, 161 pp, 1998, ISBN 2-89481-004-0.

***Glossary of Wind Energy Terms***, Forlaget Vistoft, 1997.

***Wind Energy Comes of Age***; John Wiley & Sons, 532 pp, 1995, ISBN 0-471-10924-X. Part of John Wiley & Sons' prestigious series on sustainable design. The series includes the award-winning *Gray World*, *Green Heart: Technology, Nature and the Sustainable Landscape* by Robert Thayer and *Design with Nature* by renowned landscape architect Ian McHarg. *Wind Energy Comes of Age* was selected by the Association of College and Research Libraries, a division of the American Library Association, for its list of outstanding academic books in 1995.

***Wind Energy International 2005-2006***: Chapter on U.S. wind development and chapter on small wind turbine technology, World Wind Energy Association (Ed.), 2005.

***Solar Living Source Book, 12th Edition***; Chapter entitled "Harvesting Energy: Wind Power," Real Goods Trading Co. and New Society Publishers, 2005, ISBN 0-916571-05-X.

***Renewable Energy: Prospects for Implementation***: Chapter 4, "Wind Energy--Experience from California and Denmark," Stockholm Environment

Institute, Stockholm, Sweden, 1993.

***Wind Power for Home & Business***, 419 pp, Chelsea Green, 1993, ISBN 0-930031-64-4.

*Wind Turbine Technology, Volume I: Chapter 2, "Current Wind Turbine Systems and Applications,"* for NASA under contract to the Department of Energy and the American Society of Mechanical Engineers in collaboration with R. Lynette Associates, 1994.

*Wind Energy: How To Use It*; 416 pp, Stackpole Books, 1983.

*Surface Mining, Energy, and the Environment: Chapters 1, 2, and 3*, 228 pp, ENACT, Ball State University, 1974.

### **Magazine Articles**

Published in popular, trade, and scientific press including **DEWI Magazin, Renewable Energy Access.com**, North American Windpower, Pacific Ecologist, Independent Energy Magazine, Popular Science, Sierra (Sierra Club), Mother Earth News, Solar Age, Alternative Sources of Energy, Wind Energy Weekly, Windpower Monthly, Energy Policy, Public Utilities Fortnightly, Renewable Energy, Renewable Energy World, Systèmes Solaires, and Leonardo (The Journal of the International Society for the Arts, Sciences, and Technology). Was a contributing editor to **WindStats** for many years.

### **Technical Reports**

Prepared numerous technical studies including reports on

- **moving Ontario toward Advanced Renewable Tariffs,**
- **implementation of Ontario's Standard Offer Program,**
- **renewable energy policy mechanisms for the government of New Zealand,**
- **a proposed pilot program for Standard Offer Contracts in Ontario,**
- **wind energy for Ontario landowners,**
- **the wind energy potential of Ontario for the David Suzuki Foundation,**

- **the performance of small wind turbines,**
- **the noise emissions of small wind turbines,**
- air quality and noise impacts from highway construction,
- geohydrologic impacts from surface mining, solution mining, and coal gasification and liquefaction,
- indirect sources of water pollution in the Black Hills,
- integration of wind turbines into an isolated electrical network,
- assessment of wind resources in Pennsylvania,
- operations and performance of innovative anemometer loan program,
- maturation of the wind industry, and
- **repowering the California wind industry.**

## **Photography**

Photographs have appeared (for hire) in Popular Science, Sierra, Solar Age, Alternative Sources of Energy, L'Espresso, Air & Space Smithsonian, Business Week, and **Wind Power Monthly**. Photographs have also been purchased by Addison-Wesley for use in physics textbooks, by the European Community and the National Renewable Energy Laboratory for publications on wind energy, by Friends of the Earth (UK) for brochures, by the Union of Concerned Scientists for use on posters, by the World Wildlife Fund for use on the web, and in commercial slide (diapositive) programs and CD-ROMs on energy. Photos are stocked by **Still Pictures**, London.

## **Public Speaking Experience**

Presented lectures before groups of all sizes from all walks of life including

- international conferences and community groups too numerous to mention,
- class on solar energy at West Texas State University (instructor),
- numerous six-hour seminars for colleges, universities, and trade associations in North America, Australia, New Zealand, and

Europe, and

- 10-minute presentation for political demonstration of 10,000 (first anniversary of Three Mile Island).

## **Achievements & Recognition**

- Presented the World Wind Energy Award for 2008 by the World Wind Energy Association
- **Credited as the architect of Ontario's Standard Offer Contract Program**
- Internationally recognized in the field of wind energy.
- **Wind Energy Comes of Age** used for course material by Energy Resources Group, University of California at Berkeley
- **"Gipe Power Law"** cited by NASA researchers
- Awarded the Sierra Club Cup by the Kern-Kaweah Chapter for outstanding service, the chapter's highest honor, in 2005
- Named a *Pioneer in Renewable Energy* by the World Renewable Energy Congress, one of the group's highest honors, in 1998
- Named the wind industry's *Man of the Year* by the American Wind Energy Association, the group's highest honor, in 1988
- Invited to the White House in 1979 by President Carter to participate in signing ceremonies for the Surface Mining Act
- Designed, developed, and implemented a pioneering anemometer loan program in Pennsylvania under contract to the U.S. Department of Energy.
- Developed and installed a pioneering network of highway advisory radio stations in California
- Wrote and recorded script that won the 1993 Travelers Information Message Writing Award for "Interpretive Description from the National Travelers Information Radio Exchange

## **Education**

Ball State University, Muncie, Indiana, 9/71 to 5/73. B.S. in Natural Resources. Selected as the Natural Resources Department's *Outstanding*

*Student for 1972-73.*

General Motors Institute of Technology, Flint, Michigan, 6/68 to 9/70. Mechanical Engineering program (no degree).

University of Montana, Missoula, Montana, 6/67 to 8/67. National Science Foundation summer training program in Field Ecology.

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